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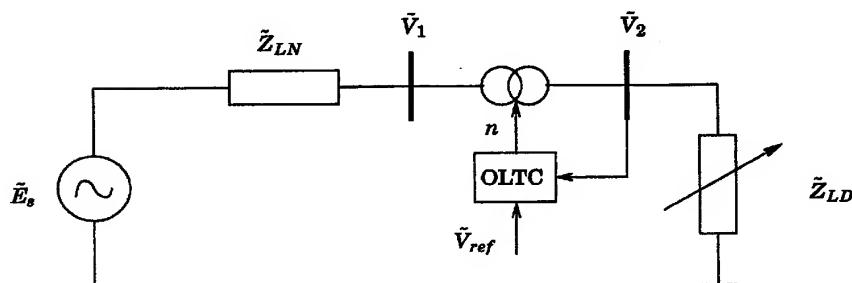
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Two-node system with generator, transmission line, transformer and load.

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(57) **Abstract:** The present invention relates to voltage stabilization of electrical power networks, and in particular to a method for voltage stabilization of an electrical power network system comprising a producing power network system side and a consuming power network side to maintain voltage, wherein the power transfer Y_{LD} , wherein Y_{LD} is power load impedance, is dynamically maintained below the loci for maximum power transfer, $n^2 Y_{LD} Z_{LN} = 1$, wherein Y_{LD} is power load impedance, Z_{LN} is transmission line impedance and n is transformer ratio, preferably Y_{LD} is maintained at a stable equilibrium.